

CLAIM CHANGES:

1. (Currently Amended) A method of inspecting an array substrate comprising a plurality of gate and signal lines disposed on the substrate ~~with and~~ intersecting perpendicularly with each other, a switching element disposed on each intersecting portion of the gate lines and the signal lines, a pixel capacitance electrically connected to each switching element, a plurality of ~~input terminals~~ connection pads into which signals ~~outputted from an external drive circuit~~ are inputted, and a selection ~~means~~ circuit having a switch distributing that distributes signals inputted from each of said ~~input terminals~~ connection pads to at least one signal line of a signal line group including a plurality of signal lines sequentially,

the method of inspecting an array substrate comprising the steps of:

writing signals into ~~one~~ a first signal line in a first signal line selection period in which said switch selects ~~said one first~~ signal line ~~is selected~~ from the signal line group ~~including a plurality of signal lines~~;

reading signals from ~~another~~ a second signal line in a second signal line selection period following said first signal line selection period in which said switch selects ~~said another second~~ signal line ~~is selected~~ from said signal line group; and

inspecting a short circuit between said ~~one~~ first signal line and said ~~another~~ second signal line based upon the read signals.

2. (Currently Amended) The method of inspecting an array substrate according to claim 1, wherein ~~said one first~~ signal line and ~~said another second~~ signal line are selected by ~~means of the same selection means~~ a first switch, and signals are written and read via ~~one input terminal~~ a first connection pad connected to the first switch.

3. (Currently Amended) The method of inspecting an array substrate according to claim 1, wherein ~~said one first~~ signal line and ~~said another second~~ signal line are selected by ~~means of different selection means~~ the first switch and the second switch respectively, and signals are written and read via ~~input terminals~~ a first connection pad and a second connection pad connected respectively to ~~each selection means~~ the first switch and the second switch.

4. (Withdrawn from Consideration) A method of inspecting an array substrate comprising a plurality of gate and signal lines disposed on the substrate with intersecting perpendicularly each other, a switching element disposed on each intersecting portion of the gate lines and the signal lines, a pixel capacitance connected electrically to each switching element, a plurality of input terminals into which signals outputted from an external drive circuit are inputted, a selection means distributing signals inputted from each of said input terminals to at least one signal line of a signal line group including a plurality of signal lines sequentially, and a distribution means putting continuity between one signal line and another signal line of said signal line group into ON/OFF,

the method of inspecting an array substrate comprising the steps of:

establishing continuity between said one signal line and said another signal line;

writing signals into said one signal line in a first signal line selection period in which said one signal line is selected from said signal line group including a plurality of signal lines;

reading signals from said another signal line in a timing following said first signal line selection period in a second signal line selection period in which said another signal line is selected from said signal line group; and

inspecting breaking of said one signal line and said another signal line based upon the read signals.

5. (Withdrawn from Consideration) The method of inspecting an array substrate according to claim 4, wherein said one signal line and said another signal line are controlled by means of the same distribution means in being put into ON/OFF and are also selected by means of the same selection means, and signals are written and read via one input terminal.

6. (Original) The method of inspecting an array substrate according to claim 1, wherein said drive circuit converts inputted digital signals into analog signals, and divides said signal lines into a plurality of signal line groups composed of a predetermined number of signal lines and outputs analog signals corresponding to each of said signal line groups serially, and

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said selection means distributes serial analog signals from said drive circuit to a

corresponding signal line of each of said signal line group sequentially.

7. (Original) The method of inspecting an array substrate according to claim 6, wherein said drive circuit is mounted on a flexible wiring substrate and is connected electrically to said array substrate.

8. (Original) The method of inspecting an array substrate according to claim 1, wherein said array substrate includes integrally a gate line drive means supplying drive signals to said gate line.

9. (Withdrawn from Consideration) The method of inspecting an array substrate according to claim 4, wherein said drive circuit converts inputted digital signals into analog signals, and divides said signal lines into a plurality of signal line groups composed of a predetermined number of signal lines and outputs analog signals corresponding to each of said signal line groups serially, and

 said selection means distributes serial analog signals from said drive circuit to a corresponding signal line of each of said signal line group sequentially.

10. (Withdrawn from Consideration) The method of inspecting an array substrate according to claim 9, wherein said drive circuit is mounted on a flexible wiring substrate and is connected electrically to said array substrate.

11. (Withdrawn from Consideration) The method of inspecting an array substrate according to claim 4, wherein said array substrate includes integrally a gate line drive means supplying drive signals to said gate line.

12. (Withdrawn from Consideration) An array substrate comprising:
 a plurality of gate and signal lines disposed on the substrate with intersecting perpendicularly each other;
 a switching element disposed on each intersecting portion of the gate lines and the

signal lines;

a pixel capacitance connected electrically to each switching element;

a plurality of input terminals into which signals outputted from an external drive circuit are inputted;

a selection means distributing signals inputted from said input terminals to a plurality of adjacent signal lines sequentially; and

an inspection pad disposed between said selection means and said switching element and connected electrically to said signal lines.

13. (Withdrawn from Consideration) The array substrate according to claim 12, wherein if the number of said signal lines selected by means one of said selection means is assumed to N, the number of said inspection pad is (N-1).

14. (Withdrawn from Consideration) The array substrate according to claim 12, wherein said selection means divides said signal lines into a plurality of signal line groups composed of a predetermined number of signal lines, inputs signals corresponding to each of said signal line groups, and distributes said signals to a corresponding signal line of each of said signal line group sequentially.

15. (Withdrawn from Consideration) The array substrate according to claim 12, wherein said array substrate includes integrally a gate line drive means supplying drive signals to said gate line.

16. (Withdrawn from Consideration) A method of inspecting an array substrate comprising:

a plurality of gate and signal lines disposed on the substrate with intersecting perpendicularly each other;

a switching element disposed on each intersecting portion of the gate lines and the signal lines;

a pixel capacitance connected electrically to the switching elements;

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a plurality of input terminals into which signals outputted from an external drive circuit are inputted;

a selection means distributing signals inputted from said input terminals to at least one signal line of a signal line group including a plurality of signal lines sequentially; and

an inspection pad disposed between said selection means and said switching element and connected electrically to said signal line,

the method of inspecting an array substrate comprising the steps of:

selecting a first signal line by means of said selection means;

writing signals from said input terminals into said first signal line;

reading output signals outputted from said second signal line via said inspection pad;

and

inspecting a short circuit between said first signal line and said second signal line based upon the signals read from the inspection pad.
